

## Appendix C6 – Source Identification (Watershed Restoration Projects)

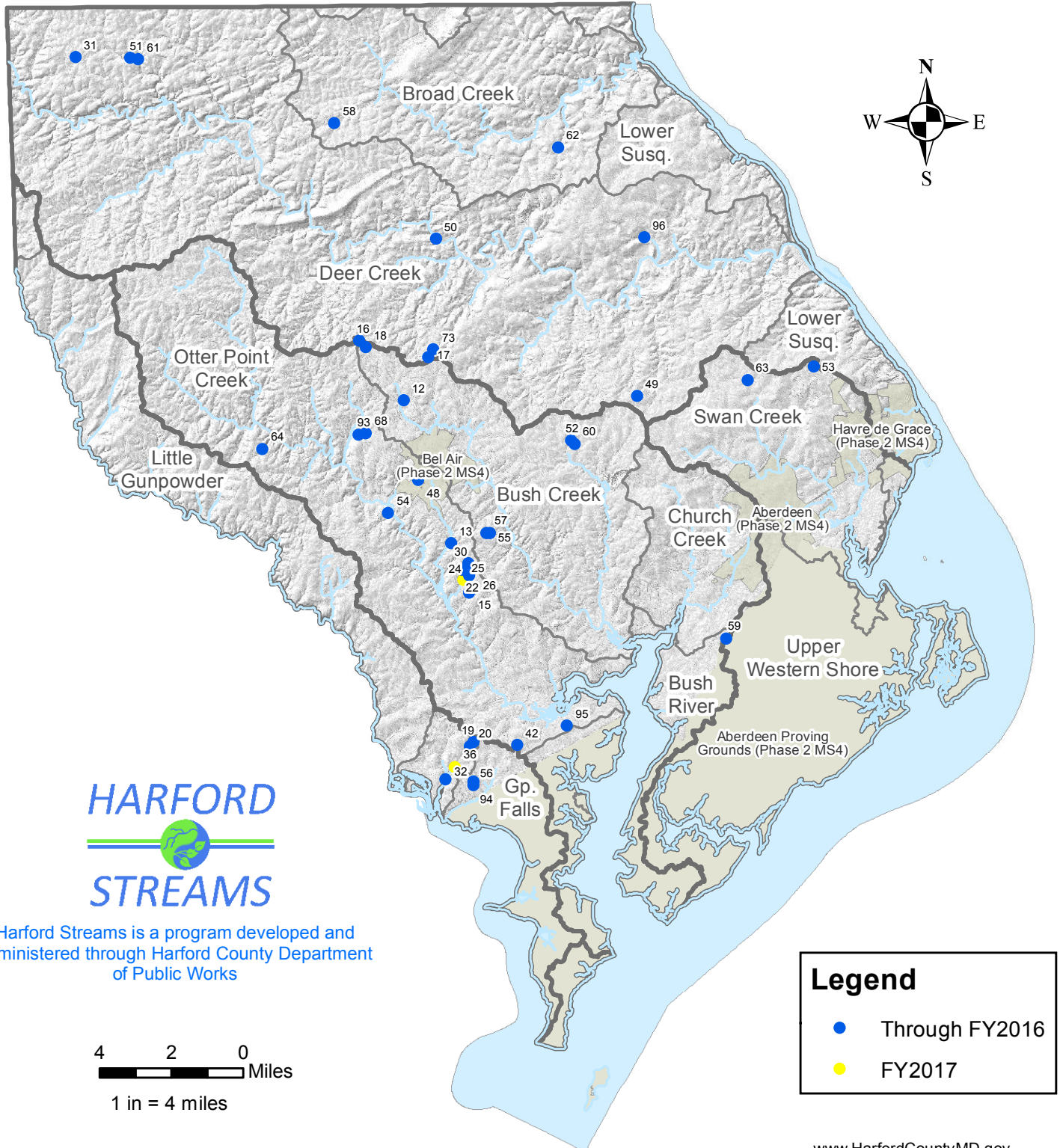
## Appendix C6

### Harford County, MD Department of Public Works Watershed Protection and Restoration

Restoration Projects Completed (Nov 2, 2009 - Jun 30, 2017)



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County Executive



NPDES Phase 1 MS4 Permit 11-DP-3310

Printed 12/2017

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Harford County, MD Department of Public Works  
Watershed Protection and Restoration  
Completed Capital Improvement Projects (MS4 Permit 11-DP-3310)



	Project	Construction Complete	Number of BMPs	Impervious Credits (ac)	Total <sup>1</sup> Cost	Grants	Cost per Credit
WP000025	Wheel Creek at Country Walk 1B SWM Retrofit	Jun 2017	1	3.66	\$530,480	\$121,623	\$144,940
WP000036	Foster Branch at Dembytown Stream Restoration	Apr 2017	2	21.20	\$915,752	\$500,000	\$43,196
WP000024	Wheel Creek at Country Walk 1A SWM Retrofit	Jun 2016	2	8.66	\$588,826	\$324,119	\$67,994
WP000026	Wheel Creek at Festival at Bel Air SWM Retrofit	Feb 2016	1	12.00	\$385,601	\$195,436	\$32,133
WP000095	Willoughby Beach Road Tree Planting	Oct 2015	1	0.57	\$11,844	\$11,844	\$20,779
WP000096	Trappe Church Road Tree Planting	Oct 2015	2	0.27	\$6,802	\$6,802	\$25,194
WP000073	Hickory Elementary Retrofit	Jul 2015	1	0.75	\$82,199	\$0	\$109,598
WP000031	Norrisville Elementary Bioretention	Jun 2015	1	0.63	\$112,600	\$50,000	\$180,160
WP000055	Patterson Mill High School Tree Planting II	Apr 2015	1	1.22	\$25,519	\$25,519	\$20,917
WP000063	Rider Lane Tree Planting	Apr 2015	1	0.76	\$18,302	\$18,302	\$24,082
WP000051	Amoss Mill Road Tree Planting II	Apr 2015	1	0.21	\$6,291	\$6,291	\$29,958
WP000064	Oakmont Road Tree Planting	Apr 2015	1	0.44	\$7,761	\$7,761	\$17,639
WP000052	Edwards Lane Tree Planting II	Apr 2015	4	1.70	\$30,772	\$30,772	\$18,101
WP000093	Red Pump Elementary School Tree Planting II	Apr 2015	3	0.66	\$17,742	\$17,742	\$26,881

<sup>1</sup> Projects with Total Cost blank were not initiated as a restoration project and were completed for other reasons. Therefore, funding has been intentionally left blank.

Harford County, MD Department of Public Works  
Watershed Protection and Restoration  
Completed Capital Improvement Projects (MS4 Permit 11-DP-3310)



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	Project	Construction Complete	Number of BMPs	Impervious Credits (ac)	Total <sup>1</sup> Cost	Grants	Cost per Credit
WP000094	Magnolia Middle School Tree Planting II	Apr 2015	2	0.47	\$12,267	\$12,267	\$26,101
WP000020	Woodbridge Stream Restoration	Apr 2015	1	12.40	\$553,083	\$258,832	\$44,603
WP000061	Amoss Mill Road Tree Planting	Oct 2014	1	0.18	\$8,448	\$8,448	\$46,933
WP000062	Harford Christian School Tree Planting	Oct 2014	1	0.62	\$15,972	\$15,972	\$25,761
WP000060	Edwards Lane Tree Planting	Oct 2014	2	0.97	\$25,952	\$25,952	\$26,755
WP000032	Foster Branch at Trimble Road Stream Restoration	May 2014	1	12.10	\$570,051	\$275,000	\$47,112
WP000054	Mt Soma Property Tree Planting	Apr 2014	2	0.97	\$28,684	\$28,684	\$29,571
WP000056	Magnolia Middle School Tree Planting	Apr 2014	1	0.23	\$5,295	\$5,295	\$23,022
WP000059	Perryman Wellfield Tree Planting	Apr 2014	2	1.81	\$43,183	\$43,183	\$23,858
WP000058	North Harford High School Tree Planting	Apr 2014	1	0.15	\$3,593	\$3,593	\$23,953
WP000019	Woodbridge SWM Retrofit	Oct 2013	1	3.80	\$256,467	\$0	\$67,491
WP000048	Heaven Waters Boulton Street Tree Planting	Oct 2013	1	0.20	\$7,546	\$7,546	\$37,730
WP000050	Walters Mill Tree Planting	Oct 2013	3	1.09	\$31,099	\$31,099	\$28,531
WP000053	Harford Center Tree Planting	Oct 2013	1	0.22	\$9,983	\$9,983	\$45,377

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Harford County, MD Department of Public Works  
Watershed Protection and Restoration  
Completed Capital Improvement Projects (MS4 Permit 11-DP-3310)



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	Project	Construction Complete	Number of BMPs	Impervious Credits (ac)	Total <sup>1</sup> Cost	Grants	Cost per Credit
WP000049	Churchville Recreation Complex Tree Planting	Oct 2013	1	0.24	\$7,434	\$7,434	\$30,975
WP000022	Wheel Creek at Gardens of Bel Air SWM Retrofit	Jul 2013	1	4.79	\$322,120	\$178,804	\$67,248
WP000030	Wheel Creek at Calvert Walks Stream Restoration	May 2013	1	7.25	\$324,682	\$204,951	\$44,784
WP000057	Patterson Mill High School Tree Planting	Apr 2013	1	0.82	\$23,688	\$23,688	\$28,888
WP000068	Cedarwood Pump Station Demolition	Aug 2012	1	0.05			
WP000018	Friends Pond SWM Retrofit	Oct 2011	1	11.70	\$109,761	\$0	\$9,381
WP000012	Bynum Ridge Stream Stabilization	Jul 2011	1	4.65	\$225,212	\$0	\$48,433
WP000017	Hickory Elementary School Bioretention	Jun 2011	1	0.60	\$179,013	\$0	\$298,354
WP000016	Forest Hill Elementary School Bioretention	Jun 2011	1	0.91	\$102,804	\$0	\$112,972
WP000013	Plumtree Run at Tollgate Stream Restoration	May 2011	1	16.80	\$428,877	\$215,000	\$25,528
WP000042	Washington Court Demolition	Jan 2011	1	2.11			
WP000015	Abingdon Library Bioretention	Oct 2010	1	0.60	\$106,644	\$53,322	\$177,740

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Harford County, MD Department of Public Works  
Watershed Protection and Restoration  
Completed Capital Improvement Projects (MS4 Permit 11-DP-3310)



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Project	Construction Complete	Number of BMPs	Impervious Credits (ac)	Total <sup>1</sup> Cost	Grants	Cost per Credit
Totals			138.45	\$6,142,349	\$2,725,265	\$44,364



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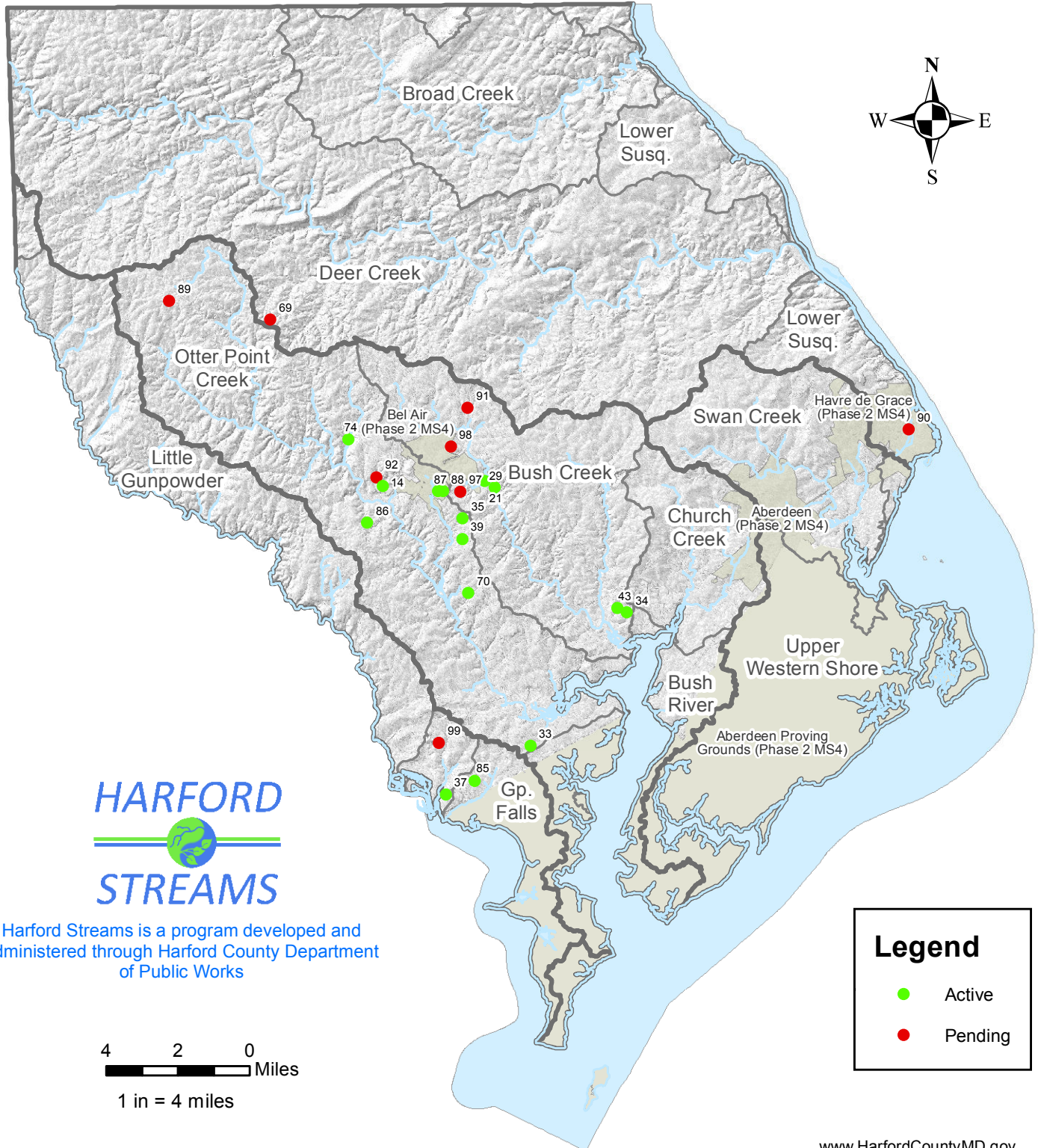
## Appendix C6

### Harford County, MD Department of Public Works Watershed Protection and Restoration

Restoration Projects Active or Pending during FY2017



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Harford County, MD Department of Public Works  
Watershed Protection and Restoration  
Active Capital Improvement Projects (MS4 Permit 11-DP-3310)



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Project	Construction Start	Number of BMPs	Impervious Credits (ac)	Total Cost	Grants	Cost per Credit
WP000027 Lower Wheel Creek SWM Retrofit & Stream Restoration	8/1/2016	6	65.81	\$2,147,002	\$1,420,177	\$32,624
WP000070 Abingdon Library Water Quality Improvements	5/1/2017	3	2.32	\$213,883	\$0	\$92,191
WP000046 Leight Center Parking Lot Green Infrastructure	6/1/2017	2	0.48	\$293,966	\$125,000	\$612,429
WP000074 Bear Cabin Branch Wetland and Stream Restoration	12/1/2017	1	36.80	\$1,090,000	\$775,000	\$29,620
WP000035 Ring Factory ES SWM Retrofit & Stream Restoration	12/1/2017	3	20.18	\$1,658,350	\$660,000	\$82,178
WP000088 Stormwater Retrofit at Homestead Elementary	3/1/2018	1	3.00	\$131,374	\$0	\$43,791
WP000029 Bynum at St Andrews Way Stream Restoration	4/1/2018	1	30.00	\$2,118,569	\$1,600,000	\$70,619
WP000033 Willoughby Beach SWM Retrofit & Stream Restoration	5/1/2018	6	33.20	\$1,634,509	\$1,100,000	\$49,232
WP000086 Annie's Playground Stream Restoration	6/1/2018	2	29.60	\$660,768	\$0	\$22,323
WP000039 Plumtree Run at Barrington Stream Restoration	7/1/2018	6	32.20	\$3,059,279	\$0	\$95,009
WP000034 Church Creek ES SWM Retrofit & Stream Restoration	7/1/2018	3	24.22	\$1,678,180	\$0	\$69,289
WP000014 Heavenly Pond Wetland & Stream Creation	7/1/2018	1	8.00	\$957,187	\$0	\$119,648
WP000037 Foster Branch at Stillmeadow Stream Restoration	7/1/2018	3	21.69	\$1,829,770	\$0	\$84,360



Harford County, MD Department of Public Works  
Watershed Protection and Restoration  
Active Capital Improvement Projects (MS4 Permit 11-DP-3310)



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Project	Construction Start	Number of BMPs	Impervious Credits (ac)	Total Cost	Grants	Cost per Credit
WP000087 Tributary to Plumtree Run at Wakefield Manor Stream Restorati	9/1/2018	1	3.00	\$94,554	\$0	\$31,518
WP000021 Sunnyview Drive Stream Restoration	9/1/2018	1	30.00	\$1,264,928	\$0	\$42,164
WP000085 Magnolia Elementary & Middle Campuses	7/1/2019	1	20.00	\$1,146,954	\$0	\$57,348
WP000043 Northwest Branch Declaration Run Stream Restoration	7/1/2019	1	19.40	\$1,206,252	\$0	\$62,178
Totals			379.90	\$21,185,524	\$5,680,177	\$55,766



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Harford County, MD Department of Public Works  
Watershed Protection and Restoration  
Pending Capital Improvement Projects (MS4 Permit 11-DP-3310)



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Project		Impervious Credits (ac)	Total Cost
WP000099	Foster Branch at Pine Road Stream Restoration	30	\$1,600,000
WP000098	Shamrock Run at Broadway Stream Restoration	27	\$1,500,000
WP000097	Woodland Run Stream Restoration	18	\$990,000
WP000092	Tributary to Winters Run at Brentwood Park Stream Restoration	32	\$1,750,000
WP000091	C Milton Wright Stormwater Retrofit and Stream Restoration	35	\$1,880,000
WP000090	Lilly Run Stream Restoration	11	\$600,000
WP000089	Jarrettsville Elementary School Retrofit	3	\$225,000
WP000069	Jarrettsville Highways Shop SWM Retrofit	3	\$225,000
Totals		159	\$8,770,000



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